

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 6, 1961

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 68 (MV)	
Location 890'N, 990'E, Sec. 33-27N-5W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7" O.D.	Set At: Feet 3440	Tubing: Diameter 2-1/16" O.D., 3.25 lbs.	Set At: Feet 5490
Pay Zone: From 5350	To 5514	Total Depth: 5599 C/O 5560	Shut In 8-23-61
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750"	Choke Constant: C 12.365	4.500", 9.50 lbs. Liner from 3324 to 5596	
Shut-in Pressure, Casing, (PC) 958	PSIG - 12 PSIA 970	Days Shut-in 14	Baker Model "R" Prod. Fkr. at 3475.
Flowing Pressure: P 152	PSIG - 12 PSIA 164	Shut-in Pressure, Tubing (MV) 1148	PSIG - 12 PSIA 1160
Temperature: T 64 F	F _r .9962	Working Pressure: P _w (Calc.) 427	PSIG - 12 PSIA 427
	F _v .750	F _{pv} (From Tables) 1.015	Gravity .648 F _g .9645

Initial SIPT (PC) = 958

Final SIPC (PC) = 962

CHOKE VOLUME $Q = C \times P_c \times F_r \times F_g \times F_{pv}$

$$Q = (12.365)(164)(.9962)(.9645)(1.015)$$

1978

MCF/D

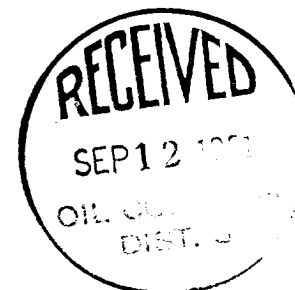
OPEN FLOW $Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

$$Aof = \left(\frac{1,345,600}{1,163,271} \right)^n (1.1567)^{.75} (1978) = (1.1153)(1978)$$

Aof

2206

MCF/D



TESTED BY **Jesse B. Goodwin**

WITNESSED BY

Checked by: **R. L. Nickell, Jr.**

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